# METHOD OF DETERMINING A NEAREST NUMERICAL
# NEIGHBOR POINT IN MULTI-DIMENSIONAL SPACE

## Abstract

5       A method of determining a near neighbor to a target point in multidimensional space from among a set of candidate points includes generating a matrix of bins and identifying a first bin that contains the target point. The first bin is searched for a first candidate point, and a set of proximate bins selected from the matrix are identified. Each of the proximate bins has at least a portion potentially closer to a first selected point in the first bin than is a

10    second selected point in the first bin.